0590
12/3
01/10/03   #12

Serial Numb r: 09/899,634C

CRF Processing Date: 01/10/03
Edited by: _____
Verified by: _____ DL _____ (STIC staff)

☐ Changed a file from non-ASCII to ASCII

☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.

ENTERED

☐ Edited a format error in the Current Application Data section, specifically: _____
_____

☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.

☐ Added the mandatory heading and subheadings for "Current Application Data".

☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.

☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
_____

☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
_____

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
_____

☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.

☐ Inserted colons after headings/subheadings. Headings edited included: _____
_____

☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
_____

☑ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☑ other invalid text, such as "Unknown" in all Artificial/Unknown entries; "OTHER INFORMATION:" in Seq. 2

☐ Inserted mandatory headings, specifically: _____

☐ Corrected an obvious error in the response, specifically: _____
_____

☐ Edited identifiers where upper case is used but lower case is required, or vice versa.

☐ Corrected an error in the Number of Sequences field, specifically: _____
_____

☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.

☐ Deleted *ending* stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____

☑ Other: Inserted hard return in front of L2207 in Seq. 2
_____
_____

*Examiner: The abov corrections must be communicated to th applicant in th first Office Action. DO NOT s nd a copy of this form.

3/1/95

```
           RAW SEQUENCE LISTING                DATE: 01/10/2003
           PATENT APPLICATION:  US/09/899,634C    TIME: 10:01:43

           Input Set : A:\ptodc.txt
           Output Set: N:\CRF4\01102003\I899634C.raw

      3 <110> APPLICANT: Thomas Buhler; Reto Andreas Gadient; Reinhard Korn; Rao Movva
      5 <120> TITLE OF INVENTION: pCAR and its uses
      7 <130> FILE REFERENCE: 4-31499A
C--> 9 <140> CURRENT APPLICATION NUMBER: US/09/899,634C
C--> 9 <141> CURRENT FILING DATE: 2002-12-09
      9 <160> NUMBER OF SEQ ID NOS: 12
     11 <170> SOFTWARE: PatentIn version 3.1
     13 <210> SEQ ID NO: 1
     14 <211> LENGTH: 4286
     15 <212> TYPE: DNA
     16 <213> ORGANISM: Artificial
     18 <220> FEATURE:
     19 <221> NAME/KEY: CDS
     20 <222> LOCATION: (3229)..(4014)
     21 <223> OTHER INFORMATION: delta pCAR gene
     24 <400> SEQUENCE: 1
     25 cggtgcgggc ctcttcgcta ttacgccagc tggcgaaagg gggatgtgct gcaaggcgat        60
     27 taagttgggt aacgccaggg ttttcccagt cacgacgttg taaaacgacg gccagtgcca       120
     29 agttgggatc tttgcattgg cccacggctc tcaggatggg gatgctcccc ttcagcaccc       180
     31 ggttcccctt ggaaactgat ggtcctggct ctgtggcatg gcagtggcac tgtgaggagc       240
     33 ccctaccagc agcacacagt gggtttggca ctgccacgct ccggatgccg cgctctgatc       300
     35 caacccccata atcaaggaa cccgaattgc cccatcattg cccccaccac ccccatcctg       360
     37 ccgggccctc acaccccacg ctgccttgtg gtgacattcc ccagcccaaa cccacggctt       420
     39 catggctacc gcggggcatt tcccattgcc gccccattat cagctctgca cacctcccgc       480
     41 tgtacccatg cctcgtggct gcccttcttt gacgtataat cttctaatta atacccggcc       540
     43 ttgtcaaagt ggagcacaaa cgttaattaa ttccccagca ggcaggtaat taacagtgtg       600
     45 actcccttttt gctgcgagt ggggctgata cagagagatg tggcactatg gagcccacgg       660
     47 ggtcctggca ctgggtgccc acggaggtcc ccatgtgctg cagtgtcacc gcctccgagg       720
     49 tgacagtatt gtccctgcgg tgtccctgca gctcagctct gtccacaggg ccacctccag       780
     51 tttggagggg acacaatgca gccccgatgc aacccatcct cgcagcatcc cagggacaaa       840
     53 gaccccactg caagaccgca cacagggctg ggtcccgctc ccctaatatc tacagtgctt       900
     55 ttgcatggcc ccttaatcaa tgcagttaat cagcatgcgc tcatgcaccg ctctggagct       960
     57 gcaaagcccc tcgcagcgct gctcaccaac accgcgcacc gccccggccc agcctgcagc      1020
     59 acgcgctgca aacaggaaag aaacaaaata ttgcccaaat gtaggcaaag gcattcggct      1080
     61 gccttgacct ccgccgggcc gggccctgcc tgactcagct ccttactcag cgctcgcttc      1140
     63 ctccctccgg ctgccaccgc cgcagcgcac accctgacaa agagtggccc ttaacgggct      1200
     65 ctgaggtgca cccagcagtg cactcagcag tccaagggcc ggcctggagg tttgcaccgc      1260
     67 tacgtgctga cattagcatt gaacttggcc ctgggtagtg ctgcaggccg ggcggggtgg      1320
     69 gtgtagagag tgcagcgcgc gttgcacccg gtgccccttc ccctcccttg catcccagca      1380
     71 ggctgcaccc cagcaccagg cccgtgcatg catgctcctg gtgttattgc agcctggtgc      1440
     73 atgcatgcgt cttagtggtg cagcgctgtg catgcatcct ccttggtgtg tagcagctta      1500
     75 gtgcatgcat acccctcggt gttattgctg ctctgtgcac gcacgctcat tgtatcactt      1560
     77 catcccagtg catgcactca cactggagcg attgctgctc ggtgcacgca cactcattgt      1620
```

RAW SEQUENCE LISTING   DATE: 01/10/2003
PATENT APPLICATION: US/09/899,634C   TIME: 10:01:43

Input Set : A:\ptodc.txt
Output Set: N:\CRF4\01102003\I899634C.raw

```
 79 atcacgtcag ctcagtggct gcacgcacac cggtgttatt gctgctcggt gcgtgcatgc  1680
 81 acatcagtgt cgctgcagct cagtgcatgc acgctcattg cccatcgcta tccctgcctc  1740
 83 tcctgctggc gctccccggg aggtgacttc aaggggaccg caggaccacc tcggggGtgg  1800
 85 ggggagggct gcacacgcgg accccgctcc ccctccccaa caaagcactg tggaatcaaa  1860
 87 aaggggggag gggggatgga ggggcgcgtc acacccccgc cccacaccct cacctcgagg  1920
 89 tgagccccac gttctgcttc actctcccca tctccccccc ctccccaccc ccaattttgt  1980
 91 atttatttat ttttttaatta ttttgtgcag cgatgggggc ggggggggg ggggcgcgcg  2040
 93 ccaggcgggg cggggcgggg cgaggggcgg ggcggggcga ggcggagagg tgcggcggca  2100
 95 gccaatcaga gcggcgcgct ccgaaagttt cctttttatgg cgaggcggcg gcggcggcgg  2160
 97 ccctataaaa agcgaagcgc gcggcgggcg ggagtcgctg cgttgccttc gccccgtgcc  2220
 99 ccgctccgcg ccgcctcgcg ccgcccgccc cggctctgac tgaccgcgtt actcccacag  2280
101 gtgagcgggc gggacggccc ttctcctccg ggctgtaatt agcgcttggt ttaatgacgg  2340
103 ctcgtttctt ttctgtggct gcgtgaaagc cttaaagggc tccgggaggg ccctttgtgc  2400
105 ggggggggagc ggctcggggg gtgcgtgcgt gtgtgtgtgc gtggggagcg ccgcgtgcgg  2460
107 cccgcgctgc ccggcggctg tgagcgctgc gggcgcggcg cggggctttg tgcgctccgc  2520
109 gtgtgcgcga ggggagcgcg gccggggggcg gtgccccgcg gtgcggggg gctgcgaggg  2580
111 gaacaaaggc tgcgtgcggg gtgtgtgcgt gggggggtga gcaggggtg tgggcgcggc  2640
113 ggtcgggctg taacccccc ctgcacccccc ctccccgagt tgctgagcac ggcccggctt  2700
115 cgggtgcggg gctccgtgcg gggcgtggcg cggggctcgc cgtgccgggc ggggggtggc  2760
117 ggcaggtggg ggtgccgggc ggggcggggc cgcctcgggc cggggagggc tcgggggagg  2820
119 ggcgcggcgg ccccggagcg ccggcggctg tcgaggcgcg gcgagccgca gccattgcct  2880
121 tttatggtaa tcgtgcgaga gggcgcaggg acttcctttg tcccaaatct ggcggagccg  2940
123 aaatctggga ggcgccgccg cacccccctct agcgggcgcg ggcgaagcgg tgcggcgccg  3000
125 gcaggaagga aatgggcggg gagggccttc gtgcgtcgcc gcgccgccgt ccccttctcc  3060
127 atctccagcc tcggggctgc cgcaggggga cggctgcctt cggggggggac ggggcagggc  3120
129 ggggttcggc ttctggcgtg tgaccggcgg ggtttatatc ttcccttctc tgttcctccg  3180
131 cagcccccaa gcttaaggtg cacggcccac gtggggacta gtgccacc atg gcg ctc  3237
132                                                    Met Ala Leu
133                                                     1
135 ctg ctg tgc ttc gtg ctc ctg tgc gga gtc gcg gat ctc acc aga agt  3285
136 Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu Thr Arg Ser
137     5                   10                  15
139 ttg agt atc act act cct gaa cag atg att gaa aag gcc aaa ggg gaa  3333
140 Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala Lys Gly Glu
141 20                  25                  30                  35
143 act gcc tat ttg cca tgc aga ttt acc ctg ggt cca gaa gac cag ggg  3381
144 Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu Asp Gln Gly
145                 40                  45                  50  .
147 ccg ctg gac atc gag tgg ctg ctg tca cca gct gat aat cag aag gtg  3429
148 Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn Gln Lys Val
149             55                  60                  65
151 gat caa gtg att att tta tat tct gga gac aaa att tat gac gac tac  3477
152 Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr Asp Asp Tyr
153         70                  75                  80
155 tac caa gat ctg aaa gga cga gta cat ttt aca agt aat gat ctc aaa  3525
156 Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn Asp Leu Lys
157     85                  90                  95
159 tca ggt gat gca tca ata aat gta aca aat cta cag ttg tca gat att  3573
160 Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu Ser Asp Ile
```

```
161 100                 105               110               115
163 ggc aca tat cag tgc aaa gtg aaa aag gct cct ggt gtt gga aat aag      3621
164 Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val Gly Asn Lys
165                 120               125               130
167 aag att cag ctg aca gtt ctt ctt aag cct tca ggt aca aga tgt tat      3669
168 Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr Arg Cys Tyr
169                 135               140               145
171 gtt gat gga tca gaa gaa att gga aat gac ttt aaa cta aaa tgt gaa      3717
172 Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu Lys Cys Glu
173                 150               155               160
175 cca aaa gaa ggt tca ctc cca tta cta tat gaa tgg cag aaa ttg tcc      3765
176 Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln Lys Leu Ser
177         165               170               175
179 aat tca cag aag ctg ccc acc ttg tgg tta gca gaa atg act tca cct      3813
180 Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met Thr Ser Pro
181 180                 185               190               195
183 gtt ata tct gta aaa aat gcc tct act gaa tac tct ggg aca tac agc      3861
184 Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly Thr Tyr Ser
185                 200               205               210
187 tgt acc gtg aaa aac aga gtg ggc tct gat cag tgc ctg ctt cgc ctg      3909
188 Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu Leu Arg Leu
189                 215               220               225
191 gat gtg gtt cct cct tca aat aga gct gga aca att gca gga gct gtt      3957
192 Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala Gly Ala Val
193         230               235               240
195 ata gga gtt ttg ctt gct cta gtg ctc att ggt ctt atc atc ttt tgc      4005
196 Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile Ile Phe Cys
197         245               250               255
199 tgt cgt taa tctagataag taatgatcat aatcagccat atcacatctg             4054
200 Cys Arg
201 260
203 tagaggtttt acttgcttta aaaaacctcc cacacctccc cctgaacctg aaacataaaa   4114
205 tgaatgcaat tgttgttgtt aacttgttta ttgcagctta taatggttac aaataaagca   4174
207 atagcatcac aaatttcaca aataaagcat tttttttcact gcattctagt tgtggtttgt   4234
209 ccaaactcat caatgtatct tatcatgtct ggatccccgg gtaccgagct cg           4286
212 <210> SEQ ID NO: 2
213 <211> LENGTH: 261
214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: delta porcine CAR
220 <400> SEQUENCE: 2
222 Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu
223 1               5                 10                15
226 Thr Arg Ser Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala
227             20                25                30
230 Lys Gly Glu Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu
231         35                40                45
234 Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn
```

```
235      50                  55                  60
238 Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr
239 65                  70                  75                  80
242 Asp Asp Tyr Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn
243                  85                  90                  95
246 Asp Leu Lys Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu
247                 100                 105                 110
250 Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val
251             115                 120                 125
254 Gly Asn Lys Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr
255         130                 135                 140
258 Arg Cys Tyr Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu
259 145                 150                 155                 160
262 Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln
263                 165                 170                 175
266 Lys Leu Ser Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met
267             180                 185                 190
270 Thr Ser Pro Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly
271         195                 200                 205
274 Thr Tyr Ser Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu
275     210                 215                 220
278 Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala
279 225                 230                 235                 240
282 Gly Ala Val Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile
283                 245                 250                 255
286 Ile Phe Cys Cys Arg
287             260
290 <210> SEQ ID NO: 3
291 <211> LENGTH: 1098
292 <212> TYPE: DNA
293 <213> ORGANISM: Artificial
295 <220> FEATURE:
296 <221> NAME/KEY: CDS
297 <222> LOCATION: (1)..(1098)
298 <223> OTHER INFORMATION: full length porcine CAR
301 <400> SEQUENCE: 3
302 atg gcg ctc ctg ctg tgc ttc gtg ctc ctg tgc gga gtc gcg gat ctc      48
303 Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu
304 1               5                  10                  15
306 acc aga agt ttg agt atc act act cct gaa cag atg att gaa aag gcc      96
307 Thr Arg Ser Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala
308             20                  25                  30
310 aaa ggg gaa act gcc tat ttg cca tgc aga ttt acc ctg ggt cca gaa     144
311 Lys Gly Glu Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu
312         35                  40                  45
314 gac cag ggg ccg ctg gac atc gag tgg ctg ctg tca cca gct gat aat     192
315 Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn
316     50                  55                  ·      60
318 cag aag gtg gat caa gtg att att tta tat tct gga gac aaa att tat     240
```

RAW SEQUENCE LISTING   DATE: 01/10/2003
PATENT APPLICATION: **US/09/899,634C**   TIME: 10:01:43

Input Set : **A:\ptodc.txt**
Output Set: **N:\CRF4\01102003\I899634C.raw**

```
319 Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr
320 65              70              75              80
322 gac gac tac tac caa gat ctg aaa gga cga gta cat ttt aca agt aat    288
323 Asp Asp Tyr Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn
324             85              90              95
326 gat ctc aaa tca ggt gat gca tca ata aat gta aca aat cta cag ttg    336
327 Asp Leu Lys Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu
328             100             105             110
330 tca gat att ggc aca tat cag tgc aaa gtg aaa aag gct cct ggt gtt    384
331 Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val
332             115             120             125
334 gga aat aag aag att cag ctg aca gtt ctt ctt aag cct tca ggt aca    432
335 Gly Asn Lys Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr
336     130             135             140
338 aga tgt tat gtt gat gga tca gaa gaa att gga aat gac ttt aaa cta    480
339 Arg Cys Tyr Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu
340 145             150             155             160
342 aaa tgt gaa cca aaa gaa ggt tca ctc cca tta cta tat gaa tgg cag    528
343 Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln
344             165             170             175
346 aaa ttg tcc aat tca cag aag ctg ccc acc ttg tgg tta gca gaa atg    576
347 Lys Leu Ser Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met
348             180             185             190
350 act tca cct gtt ata tct gta aaa aat gcc tct act gaa tac tct ggg    624
351 Thr Ser Pro Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly
352             195             200             205
354 aca tac agc tgt acc gtg aaa aac aga gtg ggc tct gat cag tgc ctg    672
355 Thr Tyr Ser Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu
356             210             215             220
358 ctt cgc ctg gat gtg gtt cct cct tca aat aga gct gga aca att gca    720
359 Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala
360 225             230             235             240
362 gga gct gtt ata gga gtt ttg ctt gct cta gtg ctc att ggt ctt att    768
363 Gly Ala Val Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile
364             245             250             255
366 gtg ttt tgc tgt cat aaa aag cgc aga gaa gaa aaa tac gaa aaa gaa    816
367 Val Phe Cys Cys His Lys Lys Arg Arg Glu Glu Lys Tyr Glu Lys Glu
368             260             265             270
370 gtg cat cat gat atc agg gaa gac gtg cct cct ccg aag agc aga acg    864
371 Val His His Asp Ile Arg Glu Asp Val Pro Pro Pro Lys Ser Arg Thr
372             275             280             285
374 tcc act gcc aga agc tac ctc ggc agc aac cac tcg tcc ctg gga tcc    912
375 Ser Thr Ala Arg Ser Tyr Leu Gly Ser Asn His Ser Ser Leu Gly Ser
376     290             295             300
378 atg tct cct tcc aac atg gaa ggc tat tcc aag act cag tat aac cag    960
379 Met Ser Pro Ser Asn Met Glu Gly Tyr Ser Lys Thr Gln Tyr Asn Gln
380 305             310             315             320
382 gta cca agc gaa gac ttt gaa cgc gct cct cag agt cca act ctc ccg    1008
383 Val Pro Ser Glu Asp Phe Glu Arg Ala Pro Gln Ser Pro Thr Leu Pro
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 01/10/2003
PATENT APPLICATION: **US/09/899,634C**   TIME: 10:01:44

Input Set : **A:\ptodc.txt**
Output Set: **N:\CRF4\01102003\I899634C.raw**

<u>Invalid \<213\> Response:</u>
Use of "Artificial" only as "\<213\> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12

VERIFICATION SUMMARY   DATE: 01/10/2003
PATENT APPLICATION: **US/09/899,634C**   TIME: 10:01:44

Input Set : **A:\ptodc.txt**
Output Set: **N:\CRF4\01102003\I899634C.raw**

L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:399 M:283 W: Missing Blank Line separator, <220> field identifier

09899634

RAW SEQUENCE LISTING   DATE: 12/31/2002
PATENT APPLICATION: US/09/899,634C   TIME: 13:42:27

Input Set : A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt
Output Set: N:\CRF4\12312002\I899634C.raw

```
    3 <110> APPLICANT: Thomas Buhler; Reto Andreas Gadient; Reinhard Korn; Rao Movva
    5 <120> TITLE OF INVENTION: pCAR and its uses
    7 <130> FILE REFERENCE: 4-31499A
C-->  9 <140> CURRENT APPLICATION NUMBER: US/09/899,634C
C-->  9 <141> CURRENT FILING DATE: 2002-12-09
    9 <160> NUMBER OF SEQ ID NOS: 12
   11 <170> SOFTWARE: PatentIn version 3.1
```

ERRORED SEQUENCES

```
  212 <210> SEQ ID NO: 2
  213 <211> LENGTH: 261
  214 <212> TYPE: PRT
C--> 215 <213> ORGANISM: Artificial/Unknown 220> FEATURE:
W--> 216 <220> FEATURE:
  216 <223> OTHER INFORMATION: OTHER INFORMATION: delta porcine CAR
E--> 218 <400> SEQUENCE: 2
  220 Met Ala Leu Leu Leu Cys Phe Val Leu Leu Cys Gly Val Ala Asp Leu
  221 1               5                   10                  15
  224 Thr Arg Ser Leu Ser Ile Thr Thr Pro Glu Gln Met Ile Glu Lys Ala
  225             20                  25                  30
  228 Lys Gly Glu Thr Ala Tyr Leu Pro Cys Arg Phe Thr Leu Gly Pro Glu
  229         35                  40                  45
  232 Asp Gln Gly Pro Leu Asp Ile Glu Trp Leu Leu Ser Pro Ala Asp Asn
  233     50                  55                  60
  236 Gln Lys Val Asp Gln Val Ile Ile Leu Tyr Ser Gly Asp Lys Ile Tyr
  237 65                  70                  75                  80
  240 Asp Asp Tyr Tyr Gln Asp Leu Lys Gly Arg Val His Phe Thr Ser Asn
  241                 85                  90                  95
  244 Asp Leu Lys Ser Gly Asp Ala Ser Ile Asn Val Thr Asn Leu Gln Leu
  245             100                 105                 110
  248 Ser Asp Ile Gly Thr Tyr Gln Cys Lys Val Lys Lys Ala Pro Gly Val
  249         115                 120                 125
  252 Gly Asn Lys Lys Ile Gln Leu Thr Val Leu Leu Lys Pro Ser Gly Thr
  253         130                 135                 140
  256 Arg Cys Tyr Val Asp Gly Ser Glu Glu Ile Gly Asn Asp Phe Lys Leu
  257 145                 150                 155                 160
  260 Lys Cys Glu Pro Lys Glu Gly Ser Leu Pro Leu Leu Tyr Glu Trp Gln
  261                 165                 170                 175
  264 Lys Leu Ser Asn Ser Gln Lys Leu Pro Thr Leu Trp Leu Ala Glu Met
  265             180                 185                 190
  268 Thr Ser Pro Val Ile Ser Val Lys Asn Ala Ser Thr Glu Tyr Ser Gly
```

(handwritten annotations: "delete (global)", "insert hard return here", "delete")

RAW SEQUENCE LISTING   DATE: 12/31/2002
PATENT APPLICATION: **US/09/899,634C**   TIME: 13:42:27

Input Set : **A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt**
Output Set: **N:\CRF4\12312002\I899634C.raw**

```
269          195                200                205
272 Thr Tyr Ser Cys Thr Val Lys Asn Arg Val Gly Ser Asp Gln Cys Leu
273     210                215                220
276 Leu Arg Leu Asp Val Val Pro Pro Ser Asn Arg Ala Gly Thr Ile Ala
277 225                230                235                240
280 Gly Ala Val Ile Gly Val Leu Leu Ala Leu Val Leu Ile Gly Leu Ile
281                245                250                255
284 Ile Phe Cys Cys Arg
285          260
```

RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 12/31/2002
PATENT APPLICATION: **US/09/899,634C**   TIME: 13:42:28

Input Set : **A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt**
Output Set: **N:\CRF4\12312002\I899634C.raw**

<u>Invalid <213> Response:</u>
Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:5,6,7,8,9,10,11,12

VERIFICATION SUMMARY   DATE: 12/31/2002
PATENT APPLICATION: **US/09/899,634C**   TIME: 13:42:28

Input Set : **A:\20010608 pCAR and its uses seq 1 to seq id 12.ST25.txt**
Output Set: **N:\CRF4\12312002\I899634C.raw**

```
L:9 M:270 C: Current Application Number differs, Replaced Current Application No
L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:16 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:1
L:215 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:2
L:216 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:2
L:218 M:200 E: Mandatory Header Field missing, <220> Tag not found for SEQ ID#:2
L:291 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:3
L:396 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:4
L:397 M:283 W: Missing Blank Line separator, <220> field identifier
L:397 M:256 W: Invalid Numeric Header Field, <220> has non-blank data
```